

3.3 PROVE LINES ARE PARALLEL

COPY INTO YOUR NOTES

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COPY DOWN ALL "FOR YOUR NOTEBOOK"

p. 161 Corresponding Angles Converse

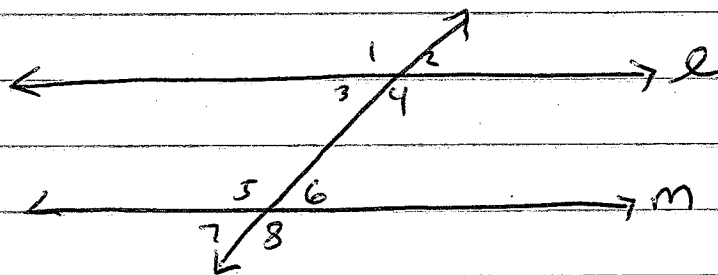
p. 162 Alternate Interior Angles Converse

Alternate Exterior Angles Converse

Consecutive Interior Angles Converse

p. 164 Transitive Property of ~~Lines~~ Parallel Lines

$\longleftrightarrow j$
 $\longleftrightarrow k$
 $\longleftrightarrow z$



IF $j \parallel k$ & $k \parallel z$,
then $j \parallel z$

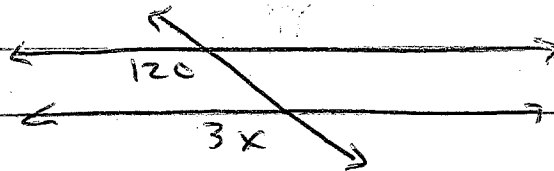
Corr. \angle 's Converse: If $\angle 1 \cong \angle 5$ are congruent,
then $l \parallel m$.

Alt. Int. \angle 's Converse: If $\angle 3 \cong \angle 6$, then $l \parallel m$.

Alt. Ext. \angle 's Converse: If $\angle 1 \cong \angle 8$, then $l \parallel m$.

Consec. Int. \angle 's Converse: If $m\angle 3 + m\angle 5 = 180^\circ$, then $l \parallel m$.

Ex 1 Find value of x that makes $m \parallel n$



$$3x = 120 \quad \text{Corr. } \angle \text{'s Converse}$$

$$x = 40 \quad \text{Div. prop. of Equality.}$$

Homework: p. 165 #4-14 even, 20, 22